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FIG.1

PROTECTION LAYER
FREE MAGNETIC LAYER
NON MAGNETIC LAYER
SECOND PINNED MAGNETIC LAYER
ANTI FERRO MAGNETICALLY COUPLING LAYER
FIRST PINNED MAGNETIC LAYER
SEED LAYER

FIG.2

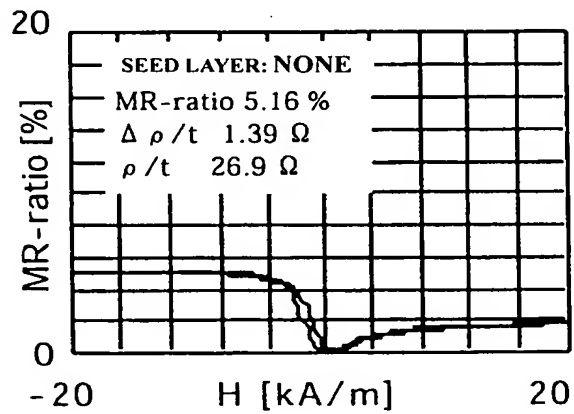


FIG.3

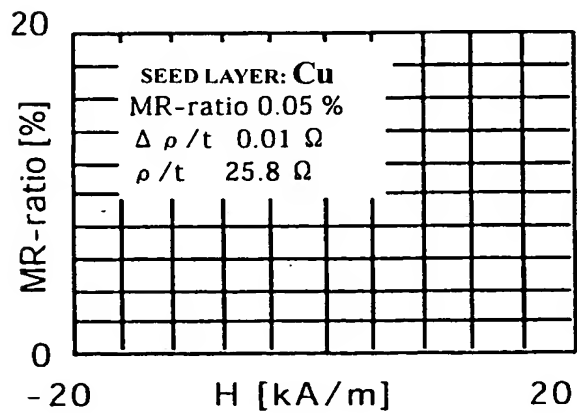


FIG. 4

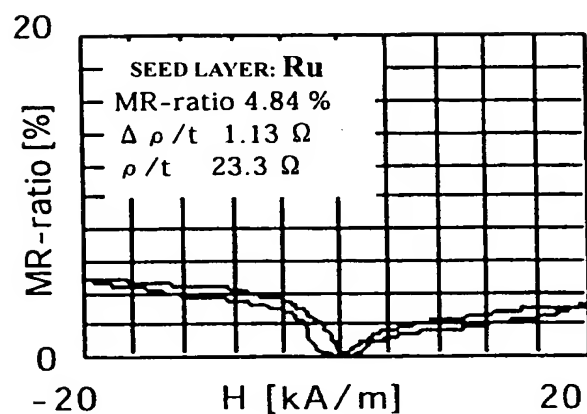


FIG. 5

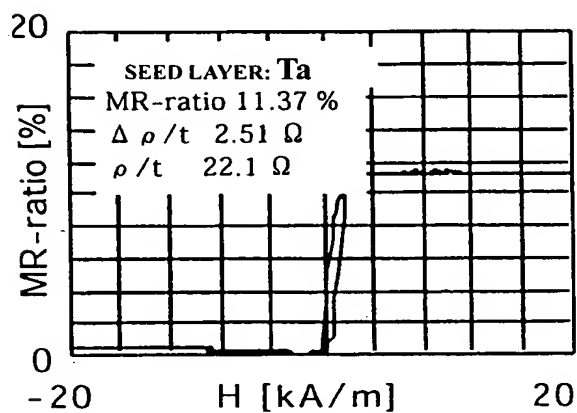


FIG. 6

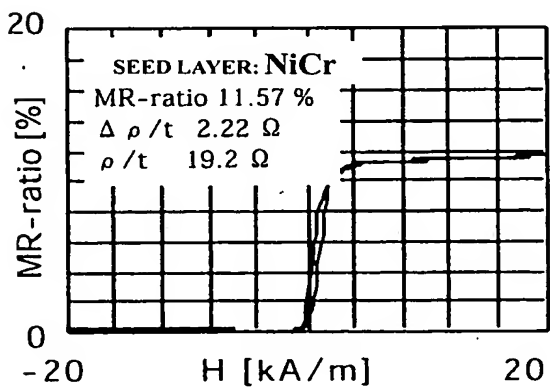


FIG.7

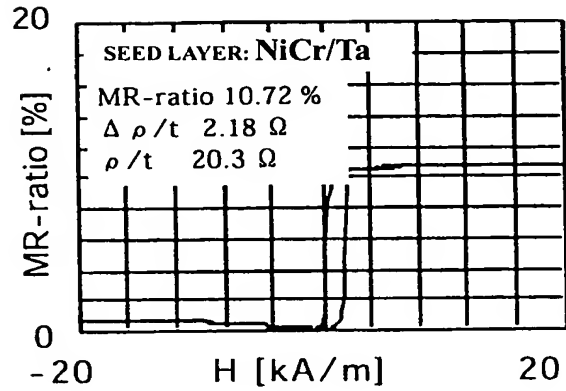


FIG.8

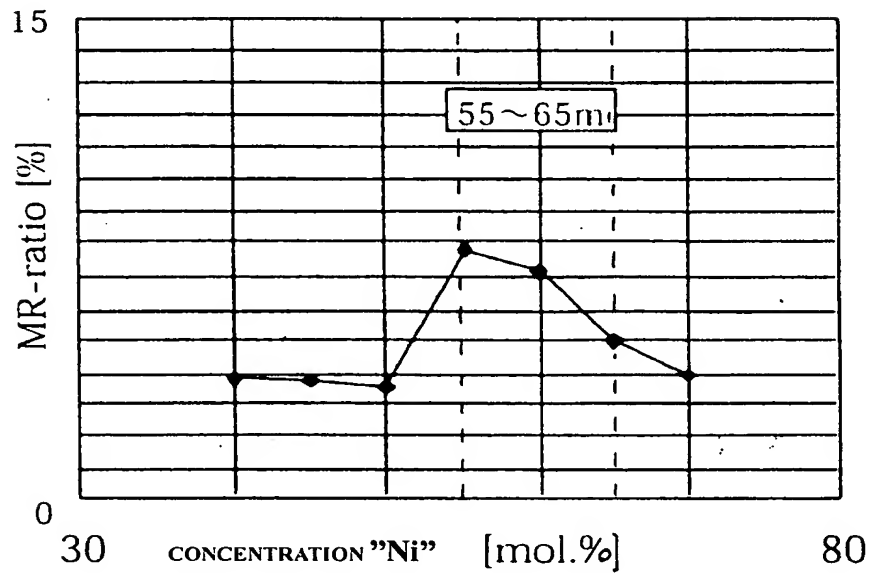


FIG. 9

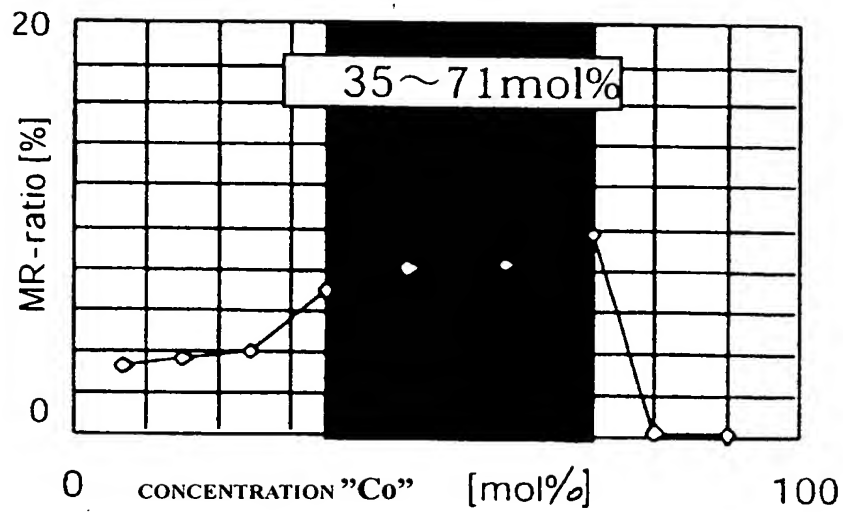


FIG. 10

BACKGROUND ART

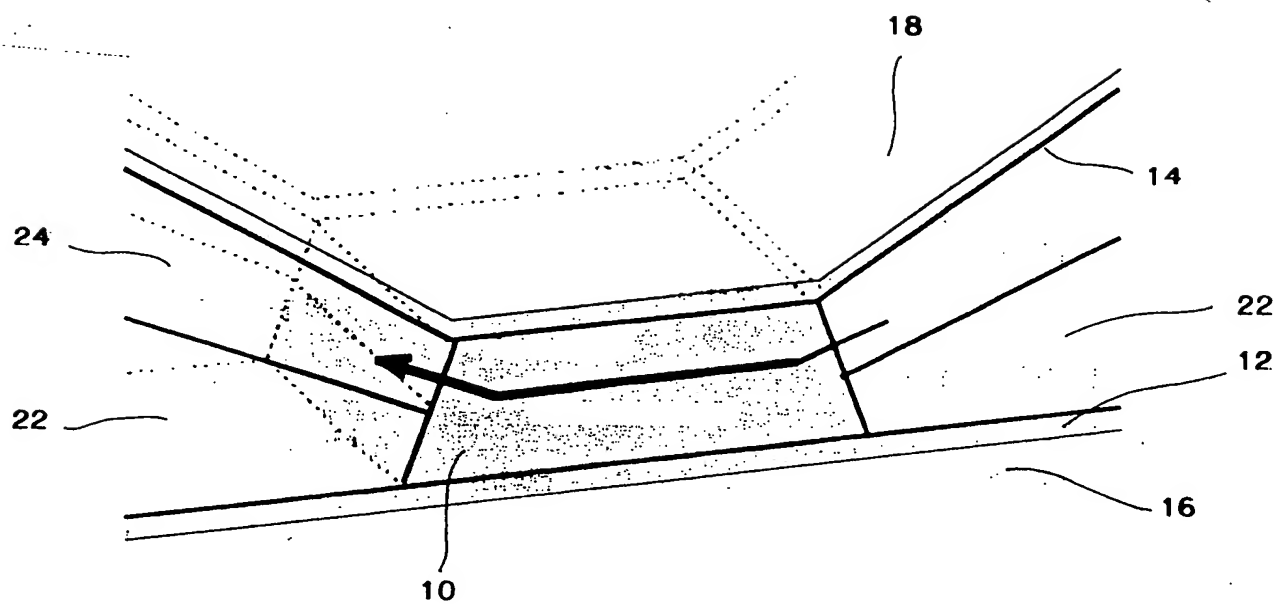


FIG. 11

BACKGROUND ART

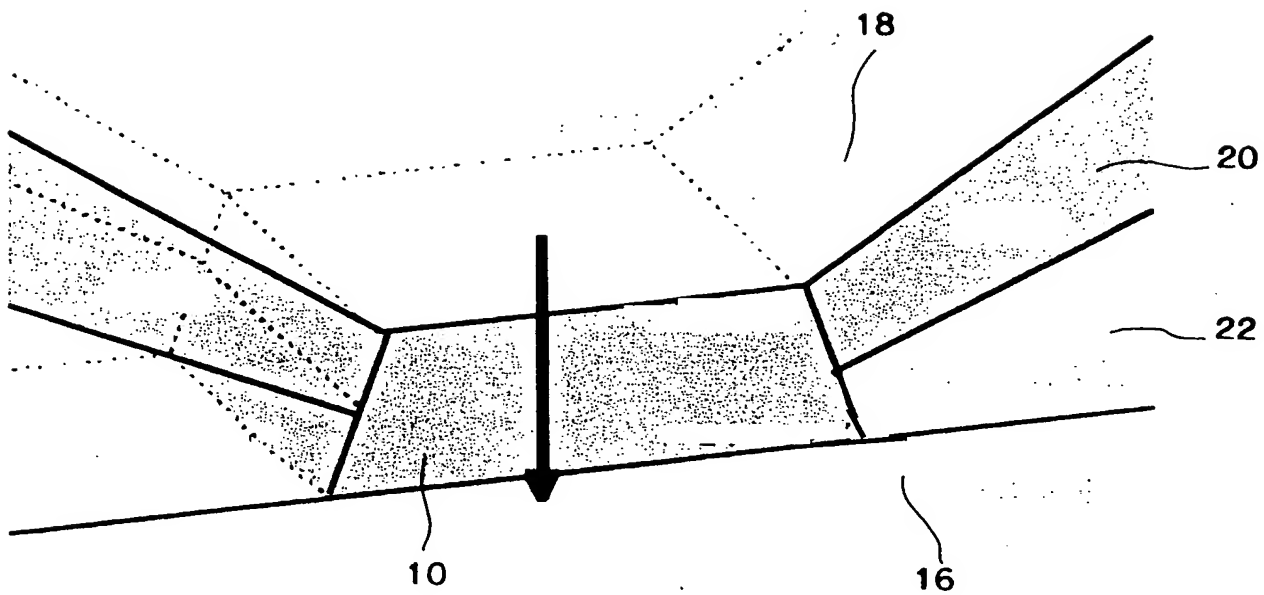


FIG. 14

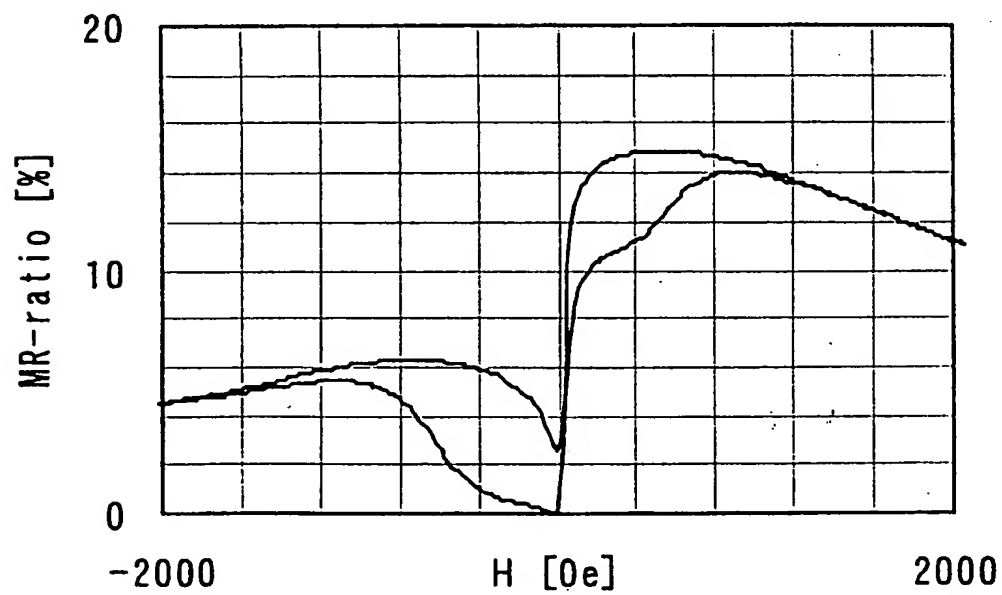


FIG.12A BACKGROUND ART

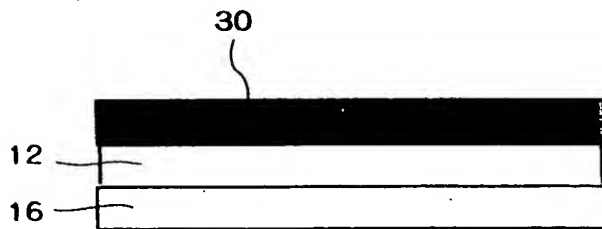


FIG.12B BACKGROUND ART

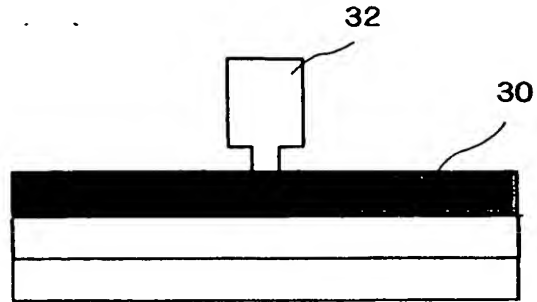


FIG.12C BACKGROUND ART

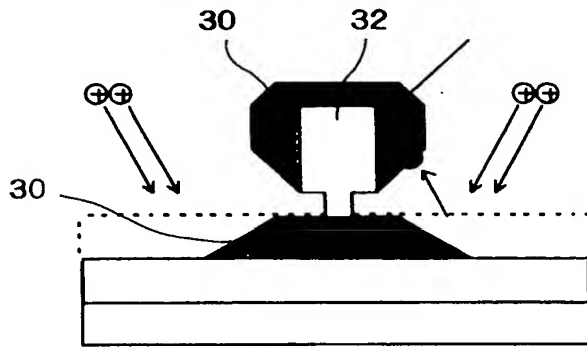


FIG.12D BACKGROUND ART

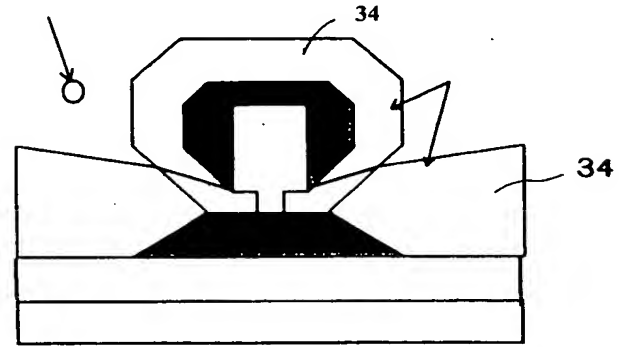


FIG.12E BACKGROUND ART

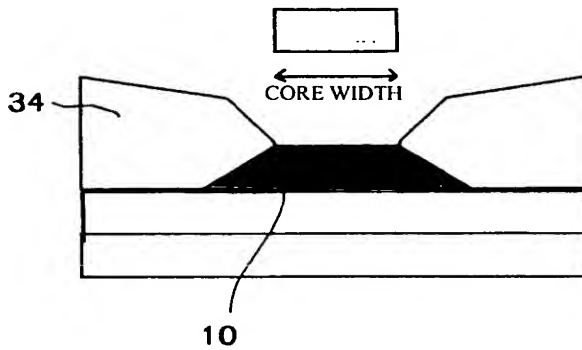


FIG.12F BACKGROUND ART

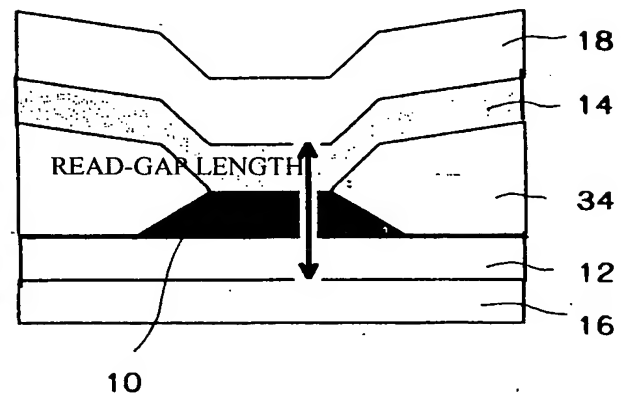


FIG.13A BACKGROUND ART

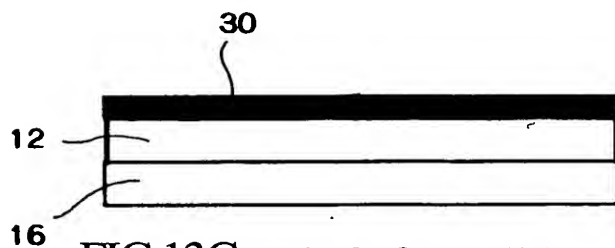


FIG.13B BACKGROUND ART

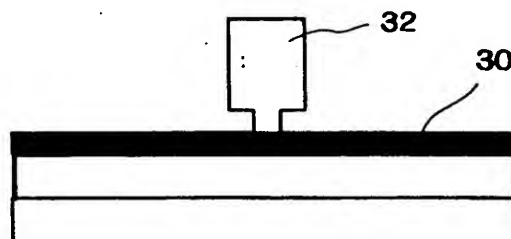


FIG.13C BACKGROUND ART

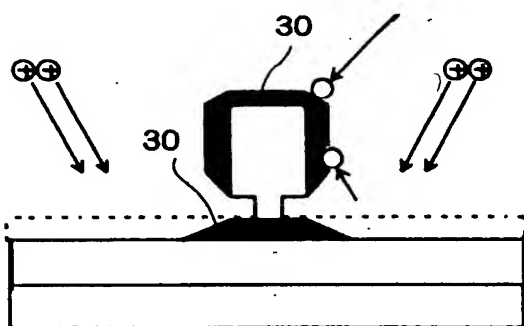


FIG.13D BACKGROUND ART

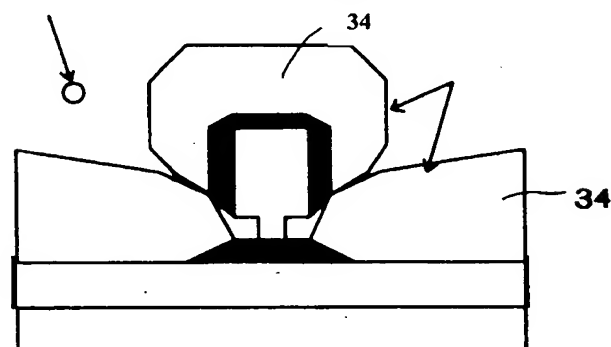


FIG.13E BACKGROUND ART

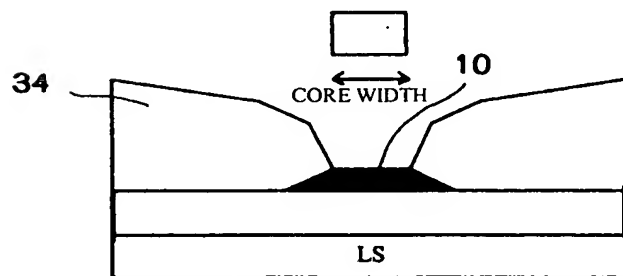


FIG.13F BACKGROUND ART

